

Abstract

A receiver 102 connected to a plurality of reception antennas 121 and
5 122 includes a propagation path correlation estimation circuit 108. The
propagation path correlation estimation circuit calculates a correlation value of
each propagation path between each of transmission antennas 111 and 112
and each of the reception antennas and transmits the calculation result as
propagation path correlation information (S_{COR}). A transmitter 101 connected
10 to a plurality of transmission antennas includes a spread code assigning
circuit 106. According to the propagation path correlation information, the
spread code assigning circuit assigns only spread codes orthogonal to each
other for the transmission antenna corresponding to a correlation value
exceeding a threshold value and, for a transmission antenna having no
15 propagation path of a correlation value exceeding the threshold value, assigns
a spread code without considering orthogonality to a spread code in the other
transmission antenna.